FIG. 1

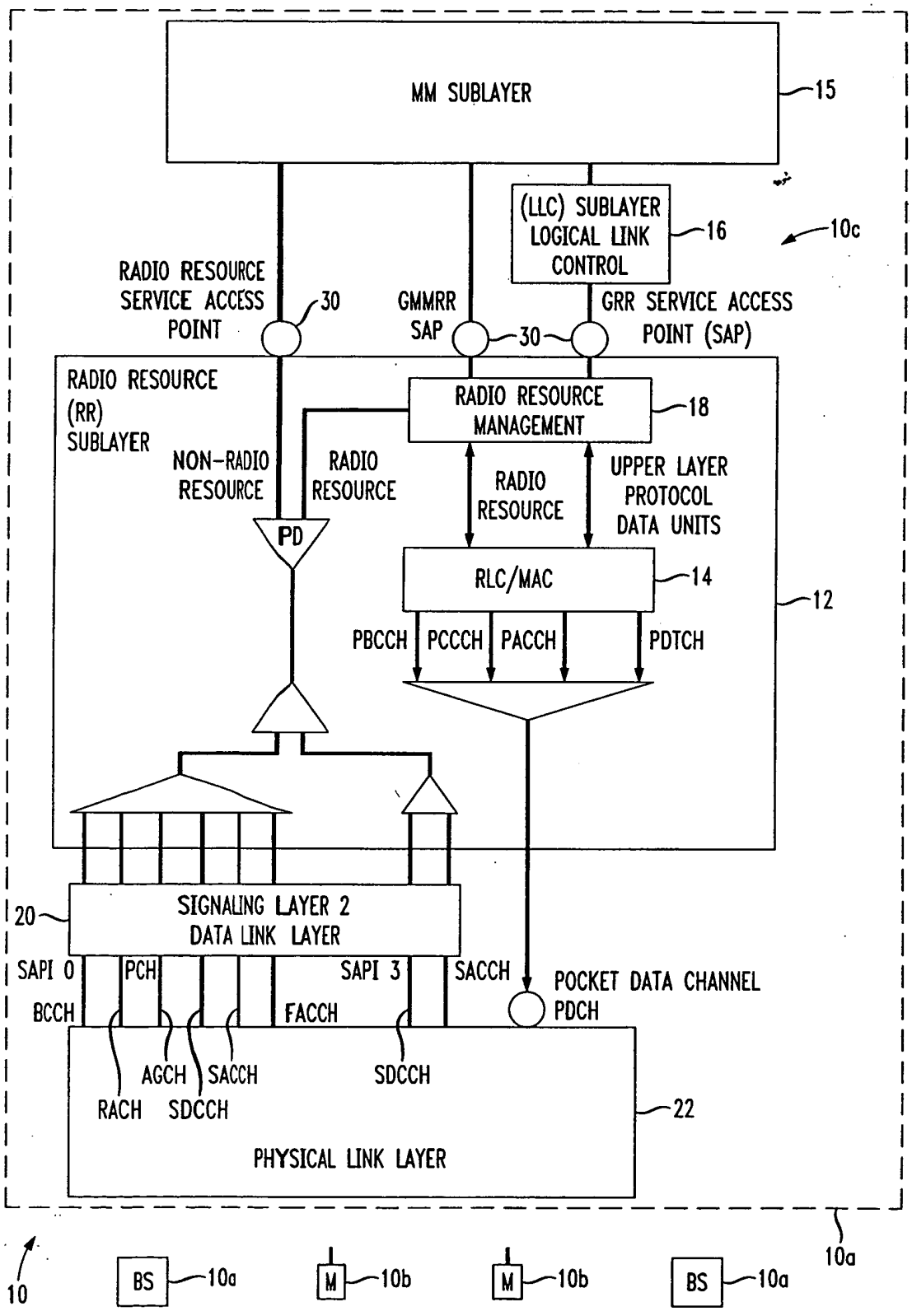
MM SUBLAYER
15
(LLC) SUBLAYER LOGICAL LINK CONTROL
16
10c
RADIO RESOURCE SERVICE ACCESS POINT
30
GMMRR SAP
30
GRR SERVICE ACCESS POINT (SAP)
RADIO RESOURCE (RR) SUBLAYER
RADIO RESOURCE MANAGEMENT
18
NON-RADIO RESOURCE
RADIO RESOURCE
RADIO RESOURCE
UPPER LAYER PROTOCOL DATA UNITS
PD
RLC/MAC
14
12
PBCCH
PCCCH
PACCH
PDTCH
20
SIGNALING LAYER 2 DATA LINK LAYER
SAPI 0
PCH
SAPI 3
SACCH
POCKET DATA CHANNEL
BCCH
FACCH
PDCH
AGCH
SACCH
SDCCH
RACH
SDCCH
22
PHYSICAL LINK LAYER
10a
10
BS
10a
M
10b
M
10b
BS
10a

FIG. 2A

EXAMPLES FOR DELIMITATION OF LLC PDU IN EGPRS RLC DATA BLOCK
(DOWN-LINK)

FIRST 2 RLC BLOCKS OF A TBF

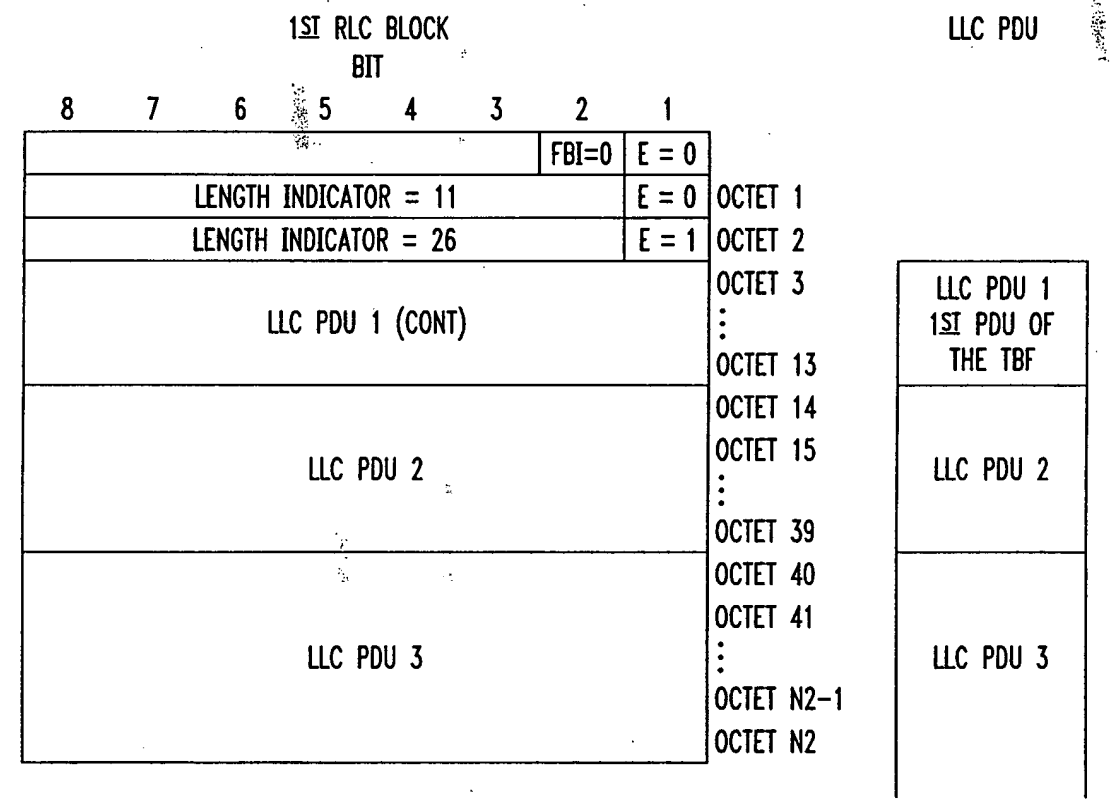

FIG. 2B

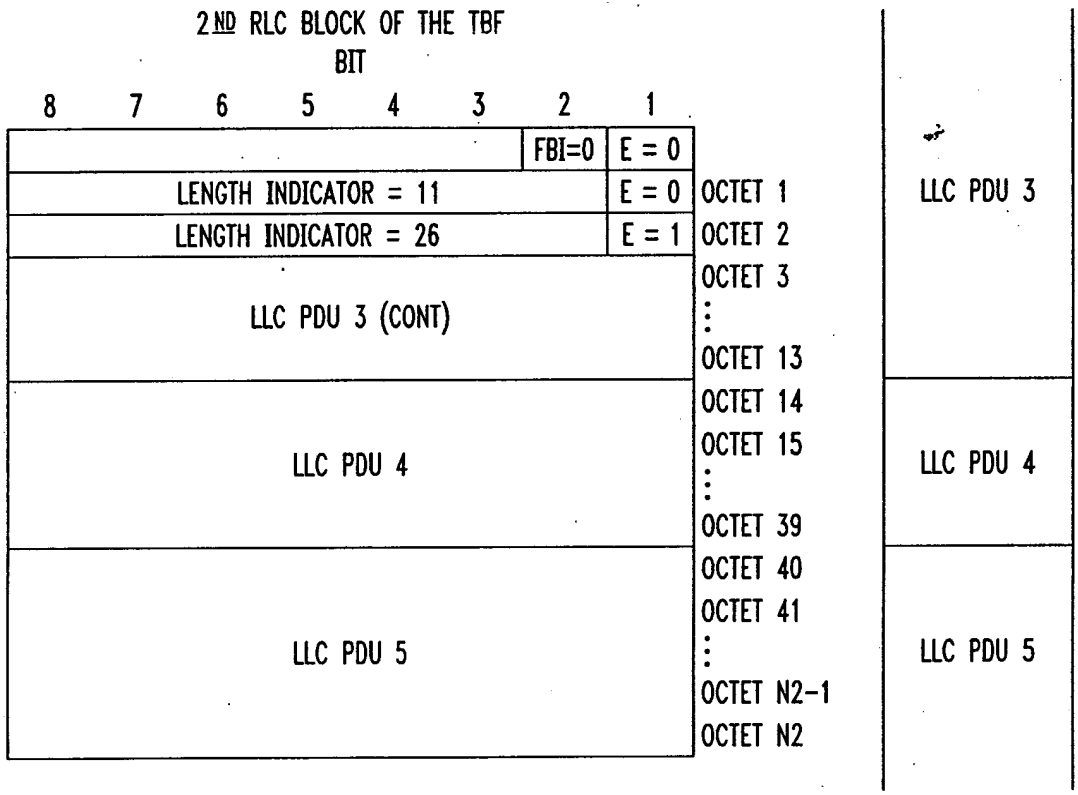
2ND RLC BLOCK OF THE TBF
BIT
8 7 6 5 4 3 2 1
FBI=0
E = 0
LENGTH INDICATOR = 11
E = 0
LENGTH INDICATOR = 26
E = 1
LLC PDU 3 (CONT)
LLC PDU 4
LLC PDU 5
OCTET 1
OCTET 2
OCTET 3
OCTET 13
OCTET 14
OCTET 15
OCTET 39
OCTET 40
OCTET 41
OCTET N2-1
OCTET N2
LLC PDU 3
LLC PDU 4
LLC PDU 5

FIG. 2C

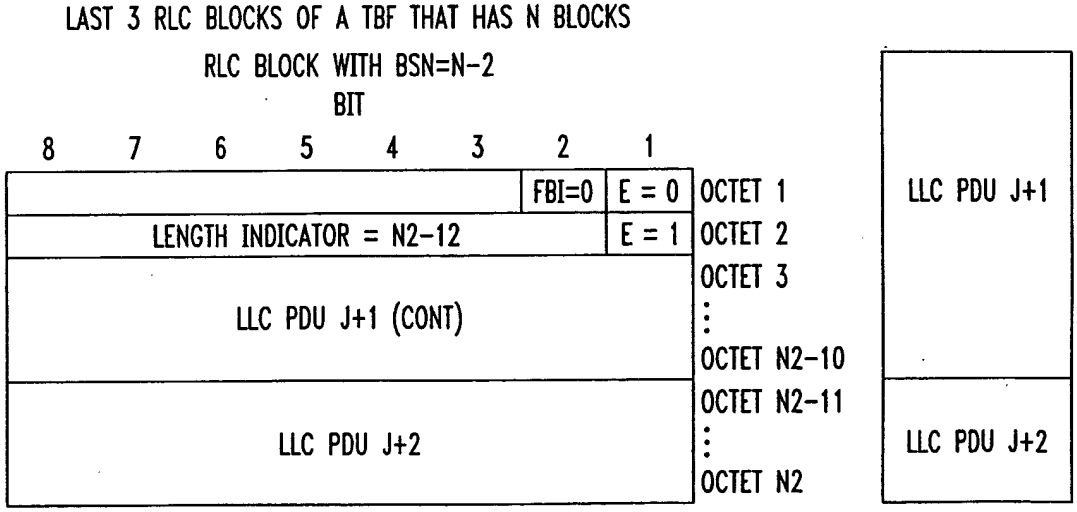
LAST 3 RLC BLOCKS OF A TBF THAT HAS N BLOCKS
RLC BLOCK WITH BSN=N-2
BIT
8 7 6 5 4 3 2 1
FBI=0
E = 0
LENGTH INDICATOR = N2-12
E = 1
LLC PDU J+1 (CONT)
LLC PDU J+2
OCTET 1
OCTET 2
OCTET 3
OCTET N2-10
OCTET N2-11
OCTET N2
LLC PDU J+1
LLC PDU J+2

FIG. 3A

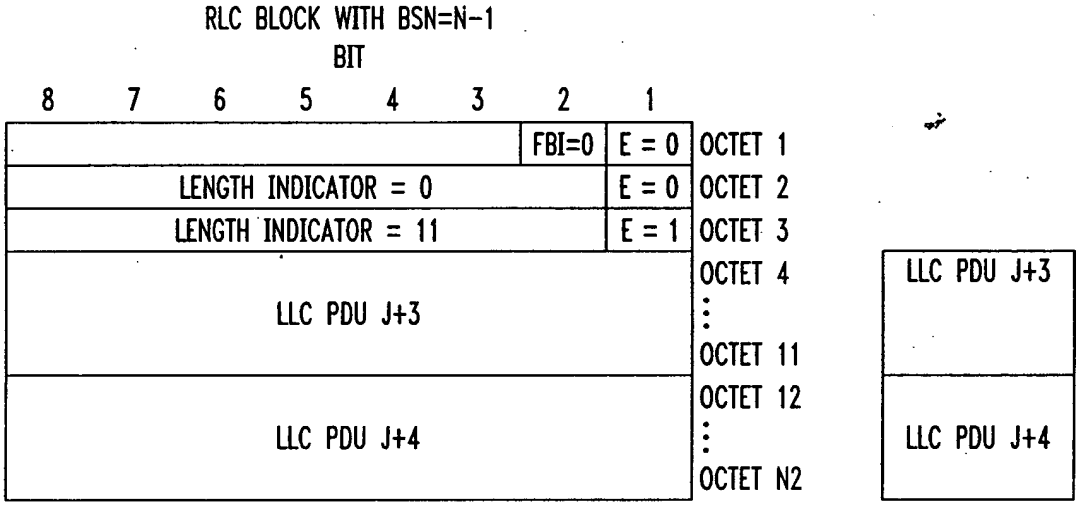
RLC BLOCK WITH BSN=N-1
BIT
8 7 6 5 4 3 2 1
FBI=0
E = 0
OCTET 1
LENGTH INDICATOR = 0
E = 0
OCTET 2
LENGTH INDICATOR = 11
E = 1
OCTET 3
LLC PDU J+3
OCTET 4
OCTET 11
LLC PDU J+4
OCTET 12
OCTET N2
LLC PDU J+3
LLC PDU J+4

FIG. 3B

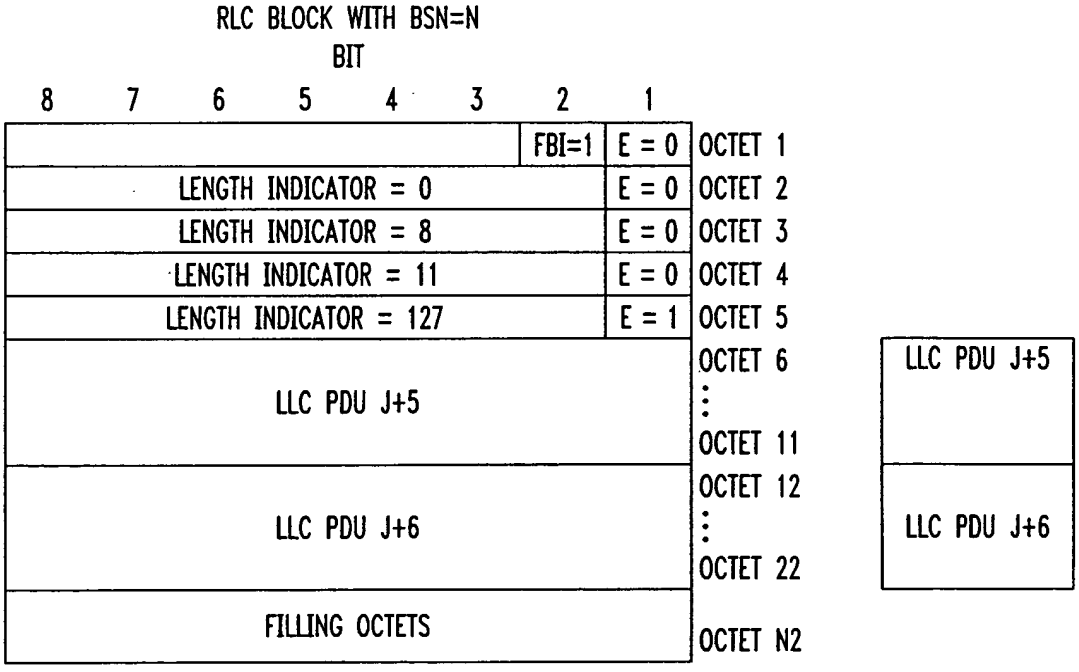
RLC BLOCK WITH BSN=N
BIT
8 7 6 5 4 3 2 1
FBI=1
E = 0
OCTET 1
LENGTH INDICATOR = 0
E = 0
OCTET 2
LENGTH INDICATOR = 8
E = 0
OCTET 3
LENGTH INDICATOR = 11
E = 0
OCTET 4
LENGTH INDICATOR = 127
E = 1
OCTET 5
LLC PDU J+5
OCTET 6
OCTET 11
LLC PDU J+6
OCTET 12
OCTET 22
FILLING OCTETS
OCTET N2
LLC PDU J+5
LLC PDU J+6

FIG. 4

AT THE END OF A TBF

RLC BLOCK WITH BSN=0 MOD SNS IN TBF

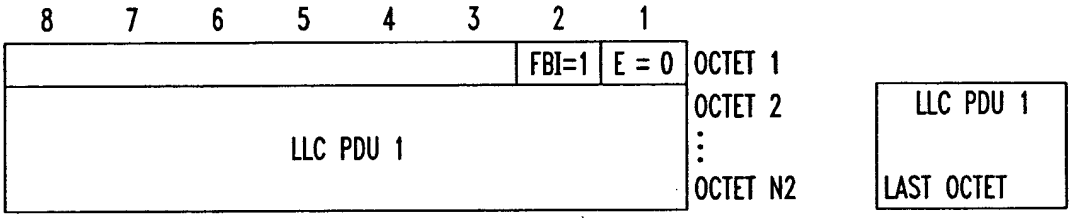

FIG. 5A

EXAMPLES FOR DELIMITATION OF LLC PDU IN EGPRS RLC DATA BLOCK (DOWN-LINK)

FIRST 2 RLC BLOCKS OF A TBF

1ST RLC BLOCK								LLC PDU	
BIT									
8	7	6	5	4	3	2	1		
						FBI=0	E = 0		
LENGTH INDICATOR = 11							E = 0	OCTET 1	
LENGTH INDICATOR = 26							E = 1	OCTET 2	
								OCTET 3	
LLC PDU 1 (CONT)								... LLC PDU 1 1ST	

PDU OF THE TBF

								OCTET 13	
								OCTET 14	
								OCTET 15	
LLC PDU 2								... LLC PDU 2	
								OCTET 39	
								OCTET 40	
								OCTET 41	
LLC PDU 3								... LLC PDU 3	
								OCTET N2-1	
								OCTET N2	

FIG. 5B

2ND RLC BLOCK OF THE TBF									
BIT									
8	7	6	5	4	3	2	1		
						FBI=0	E = 0		
LENGTH INDICATOR = 11							E = 0	OCTET 1 LLC	
PDU 3									
LENGTH INDICATOR = 26							E = 1	OCTET 2	
								OCTET 3	
LLC PDU 3 (CONT)								...	
								OCTET 13	
								OCTET 14	
								OCTET 15	
LLC PDU 4								... LLC PDU 4	
								OCTET 39	
								OCTET 40	
								OCTET 41	
LLC PDU 5								... LLC PDU 5	
								OCTET N2-1	
								OCTET N2	

FIG. 6A

LAST 3 RLC BLOCKS OF A TBF THAT HAS N BLOCKS

RLC BLOCK WITH BSN=N-2									
BIT									
8	7	6	5	4	3	2	1		
						FBI=0	E = 0	OCTET 1	LLC PDU J+
1									
LENGTH INDICATOR = N2-13							E = 1	OCTET 2	
								OCTET 3	
LLC PDU J+1 (CONT)								...	
								OCTET N2-11	
								OCTET N2-10	
LLC PDU J+2								...	LLC PDU J+
2									
								OCTET N2	

FIG. 6B

RLC BLOCK WITH BSN=N-1									
BIT									
8	7	6	5	4	3	2	1		
						FBI=0	E = 0	OCTET 1	
LENGTH INDICATOR = 0							E = 0	OCTET 2	
LENGTH INDICATOR = 8							E = 1	OCTET 3	
								OCTET 4	LLC
PDU J+3									
LLC PDU J+3								...	
								OCTET 11	
								OCTET 12	
LLC PDU J+4								...	LLC PDU J+

FIG. 6C

RLC BLOCK WITH BSN=N									
BIT									
8	7	6	5	4	3	2	1		
						FBI=1	E = 0	OCTET 1	
LENGTH INDICATOR = 0							E = 0	OCTET 2	
LENGTH INDICATOR = 6							E = 0	OCTET 3	
LENGTH INDICATOR = 11							E = 0	OCTET 4	
LENGTH INDICATOR = 127							E = 1	OCTET 5	
								OCTET 6	LLC

PDU J+5

LLC PDU J+5								...	
								OCTET 11	
								OCTET 12	
LLC PDU J+6								...	LLC PDU J+

6

								OCTET 22	
		FILLING OCTETS							
								OCTET N2	

FIG. 7

EXAMPLE 3: A TBF CONSISTS OF ONE LLC PDU

BIT									
8	7	6	5	4	3	2	1		
						FBI=1	E = 0	OCTET 1	
								OCTET 2	LLC PDU

1

LLC PDU 1								...	
								OCTET N2	LAST OCTET